

# Elastollan® 695A15

## Thermoplastic Polyurethane Elastomer (Polyester)

### BASF Corp. Thermoplastic Polyurethanes

#### Product Description

Elastollan® 695A15 is a hydrolytically stabilized, polyester-based thermoplastic polyurethane (TPU). It is specifically formulated for extruded profile, blow molded parts, sheet and film applications, and has exceptional adhesion characteristics. It is also transparent, which is unique for Elastollan polyester products. Elastollan® 695A15 also exhibits the typical features of Elastollan® C95A: excellent abrasion resistance, toughness, oil/fuel resistance, and good hydrolytic stability. As with all TPU products, Elastollan® 695A15 must be dried before processing. The drying step is required to both dry the granules and also maintain a low moisture content until the product enters the processing equipment. The water content must be less than 0.03% before processing. The typical drying conditions should be 2-4 hours @ 175°-195°F (80°-90°C). Elastollan® 695A15 can be stored for up to 1 year in its original container. Containers should be stored in a cool and dry area.

#### General

Material Status	• Commercial: Active		
Availability	• North America		
Features	• Fuel Resistant	• Good Processability	• Low Gel
	• Good Abrasion Resistance	• Good Toughness	• Oil Resistant
	• Good Adhesion	• Hydrolytically Stable	
Uses	• Film	• Profiles	• Sheet
Appearance	• Clear/Transparent		
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

#### Physical

	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/21.6 kg)	40	g/10 min	ASTM D1238

#### Mechanical

	Nominal Value	Unit	Test Method
Tensile Modulus	26.9	MPa	ASTM D638
Taber Abrasion Resistance 1000 g, H-18 Wheel	25.0	mg	ASTM D1044

#### Elastomers

	Nominal Value	Unit	Test Method
Tensile Stress			ASTM D412
100% Strain	11.8	MPa	
300% Strain	24.4	MPa	
Tensile Elongation (Break)	510	%	ASTM D412
Tear Strength <sup>2</sup>	135	kN/m	ASTM D624
Compression Set			
23°C, 22.0 hr	25	%	ASTM D395
70°C, 22.0 hr	40	%	ASTM D395B

#### Hardness

	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A)	93		ASTM D2240

#### Thermal

	Nominal Value	Unit	Test Method
Vicat Softening Temperature	97.0	°C	ASTM D1525

#### Injection

	Nominal Value	Unit
Drying Temperature	80.0 to 90.0	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.030	%
Processing (Melt) Temp	175 to 220	°C

#### Extrusion

	Nominal Value	Unit
Drying Temperature	80.0 to 90.6	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	0.030	%
Melt Temperature	175 to 195	°C

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> Die C

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

如需要更多物性资料请查阅 [www.kedisujiao.com](http://www.kedisujiao.com)

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